3Com

User Guide

Bluetooth™ Wireless PC Card or USB Adapter

3CRWB6096B
3CREB96B

http://www.3com.com/
http://www.3com.com/productreg

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1 Introduction to Bluetooth Wireless Technology

Overview

Bluetooth™ wireless technology allows you to make short-range wireless connections to Bluetooth devices, such as cellular phones, personal digital assistants (PDA), and desktop and notebook computers. Because Bluetooth wireless technology uses radio transmission, voice and data are transmitted almost immediately. Bluetooth transmission ensures both protection from interference and secure data transfers.

You might use Bluetooth wireless technology in these ways:

- Dial up to the Internet on your notebook over your Bluetooth cellular phone.
- Send a fax from your notebook over your Bluetooth cellular phone.
- Synchronize your Bluetooth PDA with your notebook.
- Send your business card to anyone in a meeting who has a Bluetooth device.
- Send or receive files to or from anyone in a meeting who has a Bluetooth notebook or PDA.
- Chat with anyone in a meeting who has a Bluetooth notebook.
- Play a one-on-one serial game without a cable.
- Send an e-mail from your training session without being wired to the network.

Bluetooth Wireless PC Card or USB Adapter

Wireless Radio Transmission

The Bluetooth wireless PC Card or USB adapter uses a reliable radio frequency to transmit data wirelessly. The onboard radio uses the following settings:

- Radio transmit power: +4 dBm (2mW)
- Radio sensitivity: better than –70 dBm
- Frequency range: 2.402–2.480 GHz

Optimized Antenna

The Bluetooth antenna provides good performance in all directions.

Software and Firmware

Current software and firmware versions are available on the 3Com Web site at:

www.support.3com.com

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2 Installing Your Bluetooth Wireless PC Card or USB Adapter and Connection Manager

Bluetooth Installation CD

The *Bluetooth Installation CD* contains the following:

- Setup programs and drivers for Windows 98 Second Edition (SE), Windows Millennium Edition (Windows Me), Windows 2000, and Windows XP
- Bluetooth Connection Manager
- README.TXT file with updated information about your Bluetooth Wireless PC Card
- This user guide
- Adobe Acrobat Reader

Installing the PC Card or USB Adapter and Virtual COM Ports in Windows Operating Systems

1. **With the computer on and Windows 98 SE, Me, 2000, or XP running, insert the *Bluetooth Installation CD* into the CD-ROM drive. The auto-start feature starts the installation. If auto-start is disabled on your computer, click *Start>Run* and type `d:\setup.exe` (where d: is your CD-ROM drive).**
2. **Select one of the following:**

   • USB for Windows 98SE, ME, 2000 or XP

   • PC Card for Windows 98 SE, ME, 2000 or XP

3. **Insert the PC Card into the PC Card slot (see the PC Card illustration below) or the USB Adapter into the USB port (see the USB illustration below). Push it into the slot until you feel it seat securely. On the PC Card, the connector containing the antenna works like a ball-point pen—press it to extend it, press it again to hide it. When the connector is extended, the blue plastic antenna is lying down. To use the antenna, raise it to a vertical position (see the PC Card illustration below).**

   After inserting the PC Card, if auto-start is enabled and nothing happens within five seconds, restart your computer and log in to Windows. The installation process will begin when the computer restarts.
4. **Respond to the prompts as they appear.**

   If you are prompted for the drivers, enter the following path, where d:is the location of the CD-ROM drive where the *Bluetooth Installation CD* is inserted:

   Windows 2000/2000XP: **`d:\drivers.W2K`**

   Windows 98 SE and Windows Me: **`d:\drivers.W98`**

   During the installation process, you may receive prompts for the Windows 2000, Windows 98 SE, or Windows Me installation CD. Insert the CD and indicate the correct path.
5. **Restart the computer whenever you are prompted.**

   Your computer will go through a brief installation process during which it will display several windows indicating what is currently installing. *This takes a few minutes*.

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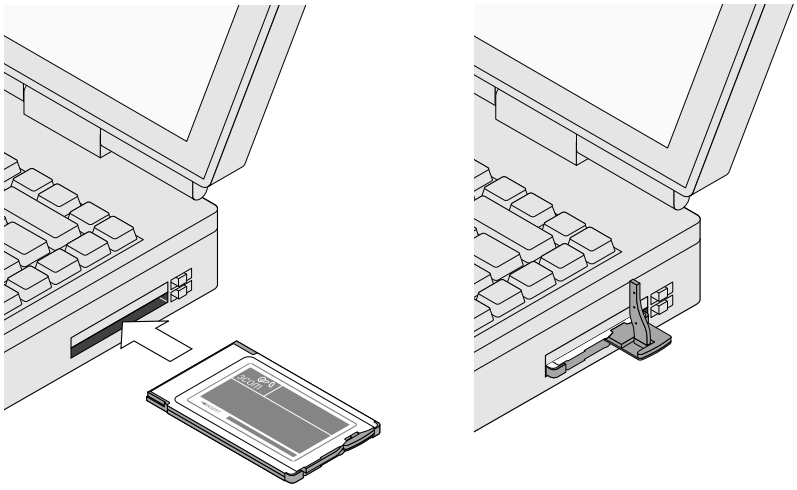
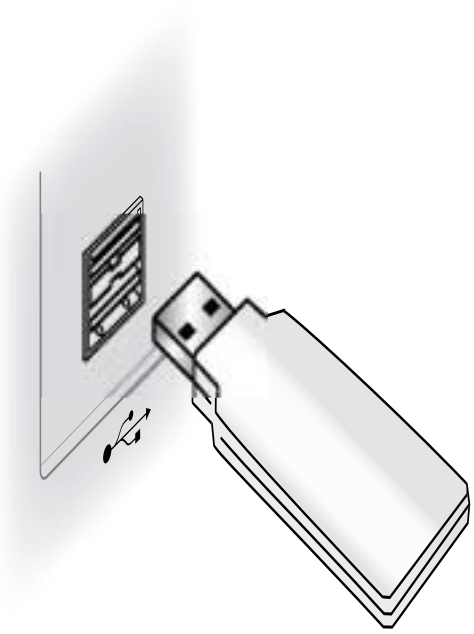
6 **From the *Bluetooth Installation CD*, select *Step 2: Install Bluetooth Software* and follow the prompts. This installs Bluetooth Connection Manager, which is necessary for you to use your Bluetooth wireless PC Card or USB adapter to communicate with other Bluetooth devices.**

During software installation, the business card creation windows appears, giving you the opportunity to create your business card now or wait until later. We suggest that you create your business card now.

7 **Restart your computer whenever you are prompted.**

On the PC Card, the connector containing the antenna may be on the opposite side of the card than is displayed below.





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Installing the PC Card on a Pocket PC Device (using Pocket PC or Pocket PC 2002)

1. **With the host PC running ActiveSync, connect your Pocket PC to the host to synchronize.**
2. **Insert the *Bluetooth Installation CD* into the CD-ROM. The auto-start feature starts the installation. If auto-start is disabled on your computer, clidk Start>Run and type d:\setup.exe (where d: is your CD-ROM drive).**
3. **Select the PC Card for Windows Pocket PC 2000 and Pocket PC 2002.**
4. **Respond to the prompts as they appear.**
5. **Insert the PC Card into the PC Card slot. Push it into the slot until you feel it seat securely. On the PC Card, the connector containing the antenna works like a ball-point pen—press it to extend it, press it again to hide it.**
6. **Select *Connection Manager* from the Start menu.**

   If the PC Card is installed properly, you will see a list of Bluetooth devices being discoverd.

Confirming Device Installation

1. **With your Bluetooth PC Card inserted in the computer, double-click the *My Computer* icon.**
2. **Double-click the *Control Panel* icon.**
3. **Double-click the *System* icon. The System Properties window appears, detailing your system setup.**
4. **If you are using Windows 2000/XP, click the *Hardware* tab.**
5. **Click the *Device Manager* button. A list of devices appears, arranged by type. One entry appears: 3Com Bluetooth.**
6. **Double-click *Ports*. Two entries appear: 3Com Bluetooth Serial Client, and 3Com Bluetooth Serial Host.**
7. **Double-click the entries to display a description of their current statuses. The device status should indicate "This device is working properly."**
8. **Click *Cancel* to return to System Properties.**
9. **Click *Cancel* to exit System Properties.**

Uninstalling Bluetooth Connection Manager and Bluetooth Device

Normally, you would not uninstall Bluetooth Connection Manager; however, in case a problem arises, you may want to uninstall and reinstall it.

In all Windows operating systems you can uninstall Connection Manager any time following the installation. The uninstall removes desktop icons, registry entry files, and files used by the PC Card. If any files exist in the Inbox, neither the files nor the Inbox is removed when Connection Manager is uninstalled.

1. **Click *Start>Settings>Control Panel*.**
2. **Double-click *Add/Remove Programs*.**
3. **When the Install Shield wizard appears, select *Remove* and then click *Next.***

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4 **Click *OK* in the Confirm Uninstall dialog window.**

5 **Click *OK* in the 3Com Bluetooth Product Removal dialog window.**

6 **Make sure you remove your Bluetooth Wireless device.**

7 **When the uninstall is complete, restart your computer when prompted.**

Using Bluetooth Connection Manager

Refer to Bluetooth Connection Manager's Help for detailed information about how to use Connection Manager and troubleshoot your Bluetooth wireless product.

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A Support and Service

3Com provides easy access to technical support information through a variety of services. This appendix describes these services.

Information contained in this appendix is correct at time of publication. For the most recent information, 3Com recommends that you access the 3Com Corporation World Wide Web site.

Online Technical Services

3Com offers worldwide product support 24 hours a day, 7 days a week, through the following online systems:

- World Wide Web site
- 3Com Knowledgebase Web Services
- 3Com FTP site

World Wide Web Site

To access the latest networking information on the 3Com Corporation World Wide Web site, enter this URL into your Internet browser:

```
http://www.3com.com
```

This service provides access to online support information, such as technical documentation and a software library, as well as support options that range from technical education to maintenance and professional services.

3Com Knowledgebase Web Services

The 3Com Knowledgebase is a database of technical information to help you install, upgrade, configure, or support 3Com products. The Knowledgebase is updated daily with technical information discovered by 3Com technical support engineers. This complimentary service, which is available 24 hours a day, 7 days a week to 3Com customers and partners, is located on the 3Com Corporation World Wide Web site at:

```
http://knowledgebase.3com.com
```

3Com FTP Site

Download drivers, patches, software, and MIBs across the Internet from the 3Com public FTP site. This service is available 24 hours a day, 7 days a week.

To connect to the 3Com FTP site, enter the following information into your FTP client:

- Hostname: `ftp.3com.com`
- Username: `anonymous`
- Password: `<your Internet e-mail address>`

NOTE: With Web browser software, such as Netscape Navigator and Internet Explorer, you do not need a user name and password.

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Support from Your Network Supplier

If you require additional assistance, consult your network supplier. Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you consult your network supplier, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

If you are unable to consult your network supplier, see the following section on how to contact 3Com.

Support from 3Com

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services. To find out more about your support options, go to the Web site associated with your region of the world shown below.

Region	URL for Regional Web Site
Asia and the Pacific Rim	ap.3com.com/contacts/support-contacts.html
Africa, Europe, and the Middle East	emea.3com.com/support/supportnumbers.html
Latin America	lat.3com.com/lat/support/index.html
North America	csoweb4.3com.com/contactus/

When you contact 3Com for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

Returning Products for Repair

Before you send a product directly to 3Com for repair, you must first obtain an authorization number. Products sent to 3Com without authorization numbers will be returned to the sender unopened, at the sender's expense. To obtain an authorization number, go to the Web site listed above for your region.

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REGULATORY INFORMATION

EXPORT NOTICE

NOTE: *This product contains encryption. It is unlawful to export out of the U.S. without obtaining a U.S. Export License.*

FCC RADIO FREQUENCY EXPOSURE NOTICE

CAUTION: *FCC Radio-Frequency Exposure Notice*

This device generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, this equipment has to be installed and operated while maintaining a minimum body to antenna distance of 2.5 cm (1.0 inch).

This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate 3Com's warranty and all applicable regulatory certifications and approvals.

FCC PART 15 NOTICE (APPLICABLE TO USE WITHIN THE USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undersired operation.

WARNING: *This equipment has been tested and found to comply with the limits for a Class B digital device as applicable, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

- *Reorient or relocate the receiving antenna.*
- *Increase the separation between the equipment and receiver.*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- *Consult the dealer or an experienced radio/TV technician for help.*

The user may find the following booklet prepared by the Federal Communications Commission helpful:*The Interference Handbook*

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

MANUFACTURER'S DECLARATION OF CONFORMITY

3Com Corporation
3930 W. Parkway Blvd.
PO Box 704010
West Valley City, UT 84119
(800) 527-8677

Declares that the Product:

Date: 1 November 2002
Brand Name: 3Com Corporation
Model Number: SL-1022 / 3CREB96B
Equipment Type: Wireless Bluetooth PC Card / Wireless Bluetooth USB Adapter

Complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

3Com Corporation	SL-1022 / 3CREB96B
FC	Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE	

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Industry Canada Notice (Applicable for use within Canada)

This device complies with Canadian RSS-210.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca/rpb.

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil est conform à la norme CNR-210 du Canada.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, cet appareil doit être utilisé à l'intérieur seulement et devrait êtra placé loin des fenêtres afin de fournir un écran de blindage maximal.

L'installateur du présent matériel radio doit s'assurer que l'antenne est située ou pointée de manière à ce que cette derniére n'émette pas de champs radioélectriques supérieurs aux limites spécifiées par Santé Canada pour le grand public; condulter le Code de sécurité 6, disponible sur le site Web de Santé Canada, à l'adresse suivante: www.hc-sc.gc.ca/rpb.

Safety

This device has been tested and certified according to the following safety standards and is intended for use only in Information Technology Equipment which has been tested and certified to these or other equivalent standards:

- *UL Standard 60950 (3rd Edition)/ CSA C22.2 No. 60950*
- *IEC 60950*
- *EN 60950*

European Community CE Notice

Marking by the symbol CE indicates compliance of this equipment to the R&TTE Directive 1999/5/EC. Such marking is indicative that this equipment meets or exceeds the following technical standards:

- ETS 300 328 — Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; data transmission equipment operating in the 2,4GHz ISM band and using spread spectrum modulation techniques
- ETS 301 489-17— Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; specific coniditions for Wideband data and High PErformance Radio Local Area Network (HIPERLAN) equipment
- EN 60950 — Safety of information technology equipment, including electrical business equipment

This device may be used throughout the European Community.

NOTE: Due to frequency restrictions it is necessary to select your country before using this radio device. Refer to your 3Com Wireless LAN Manager online help for details.

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